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the most Versatile Power Unit . . .

The HYDROMOTOR hydraulic torque actuator, the perfected design for producing *full power in either direction of rotation, is the most* versatile hydraulic unit ever developed.

Simple in design, compact in construction, HYDROMOTOR may be *stopped or reversed* from any position in the 280 degrees arc of working movement.

HYDROMOTOR responds instantly and positively; there are no shaft back lash, line jerks or gear meshing delays. Even torque output is insured by the fluid power circuit and the patented, double shaft sealing design.

HYDROMOTOR has *no working surface exposed* to dirt or grime —it is fully sealed and self-contained.

HYDROMOTOR may be installed in any position. Particularly advantageous in restricted areas, it delivers full power for all types of horizontal and vertical torque applications.

Bulletin No. 20 gives full specifications and illustrates a number of typical applications.

The HYDROMOTOR Model 10-5 shown is rated at 50,000 inch pounds of torque output at the shaft at 1000 psi. Other standard models are rated at 1,500 to 120,000 inch pounds of torque. Operated with air or oil—new uses are multiplying daily.

HYDROMOTOR DIVISION

THE BONNOT CO.

CANTON 2, OHIO

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KNOW YOUR COMPONENT SYMBOLS

Hydraulic Series

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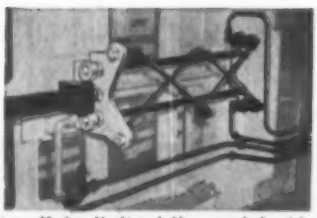
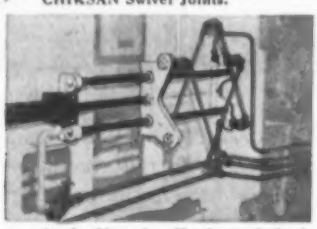
CHIKSAN

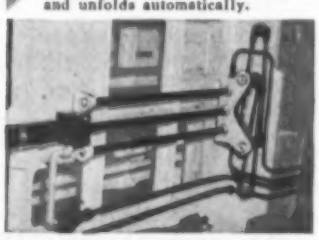
Hydraulic Swivel Joints help to simplify design



Hydraulic line fully extended, with turning movement taking place with CHIKSAN Swivel Joints.



As the Unpacker Head travels back and forth, the hydraulic line folds and unfolds automatically.



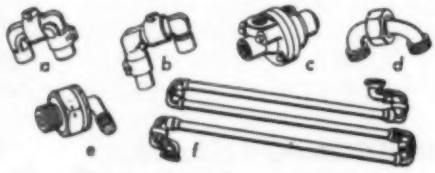
At the end of the stroke, the hydraulic line requires sharp bends which are possible only by using CHIKSAN Swivel Joints.

With CHIKSAN Hydraulic Swivel Joints you can design and build flexible hydraulic lines to handle pressures to 3,000 psi . . . and thereby gain advantages not obtainable by any other method. A typical example is the *Ermold Automatic Case Unpacker.*

CHIKSAN Hydraulic Swivel Joints make possible sharp bends, thus permitting installations where space is limited. They eliminate drag and snag. In addition, you get uniform low operating torque, strength and safety under all conditions. All-metal tubing assures longer life.

There are 5 Basic Types of CHIKSAN Swivel Joints — a Type for every purpose. CHIKSAN Engineers will gladly cooperate with you in selecting the correct Type . . . either standard or of special design . . . for your specific requirements.

(a) Basic Type Swivel Joints — for pressures from 125 psi. to 15,000 psi. (b) High Temperature Swivel Joints for temperatures to 500° F., working pressures to 700 psi. (c) Rotating Joints for 150-lb. steam, brine, etc. For hot and cold rolls, tumblers, platens, etc. (d) Sanitary Swivel Joints for food processing, fruit juices, dairies, etc. (e) Hydraulic Swivel Joints for pressures to 3,000 psi. For aircraft, industrial and armored equipment. (f) Flexible Lines, designed and fabricated to meet specific requirements.



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BALL-BEARING SWIVEL JOINTS FOR ALL PURPOSES

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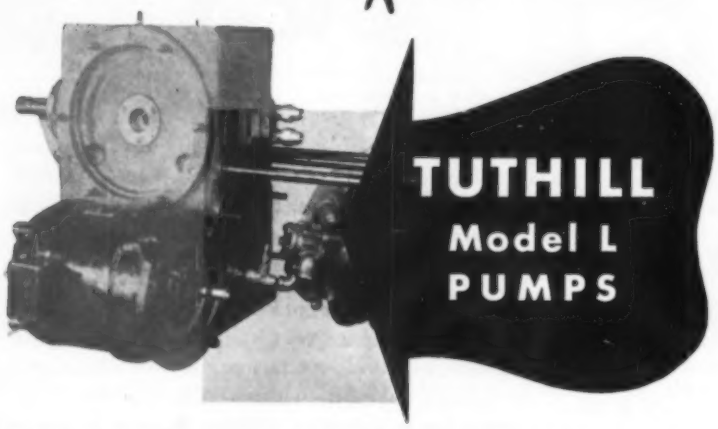
Hydraulic

AT YOUR SERVICE



Here is a compact, positive displacement, internal gear rotary pump that you can depend on for hydraulic service up to 400 p.s.i. Hundreds of thousands of these Tuthill Model L pumps in service back up their reputation for dependability.

Model L is mechanically sealed for quiet, leak-free performance and low power consumption. Capacities range up to 3 g.p.m. and pressures to 400 p.s.i. Available for either belt or direct motor drive with flange or foot mounting. Also as stripped models for built-in applications.

Write for details on Tuthill Model L for hydraulic service

25th Anniversary

TUTHILL PUMP COMPANY

939 E. 95th Street, Chicago 19, Illinois

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